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CLAIMS

1. A method of regulating the temperature of a print
5 head comprising one or more print elements, the method
comprising the step of using a temperature control medium
to regulate the temperature of one or more of the print
elements.
- 10 2. A method according to claim 1, wherein the
temperature control medium is pumped from a storage means
to the one or more print elements.
- 15 3. A method according to claim 2, wherein the
temperature control medium is pumped from the one or more
print elements back to the storage means.
- 20 4. A method according to claim 3, wherein the
temperature of the print head is regulated based on the
temperature difference between the temperature control
medium pumped from the storage means to the one or more
print elements and the temperature control medium pumped
from the one or more print elements back to the storage
means.
- 25 5. A method according to any preceding claim where the
temperature control medium is also a print medium.
- 30 6. A method according to claim 5 wherein the temperature
control medium is an ink.

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7. A print head comprising:

one or more print elements;

temperature control medium storage means, the storage
5 means being in fluid communication with the one or more
print elements such that, in use, temperature control
medium can circulate from the storage means to the one or
more print elements and thence to the storage means.

10 8. A print head according to claim 7, wherein the print
head further comprises temperature control means that, in
use, heats or cools the temperature control medium held in
the storage means.

15 9. A print head according to claim 7 or claim 8, further
comprising a first conduit for providing fluid
communication from the storage means to the printing
elements and a second conduit fro providing fluid
communication from the printing elements to the storage
20 means.

10. An print head according to any of claims 7 to 9,
wherein the print head comprises one or more temperature
sensors.

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11. A print head according to claim 10, wherein one or
more temperature sensors are arranged to measure the
temperature of one or more print elements.

30 12. A print head according to claim 10 or claim 11,

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wherein one or more temperature sensors are arranged to measure the temperature of the temperature control medium in the first conduit and or the second conduit.